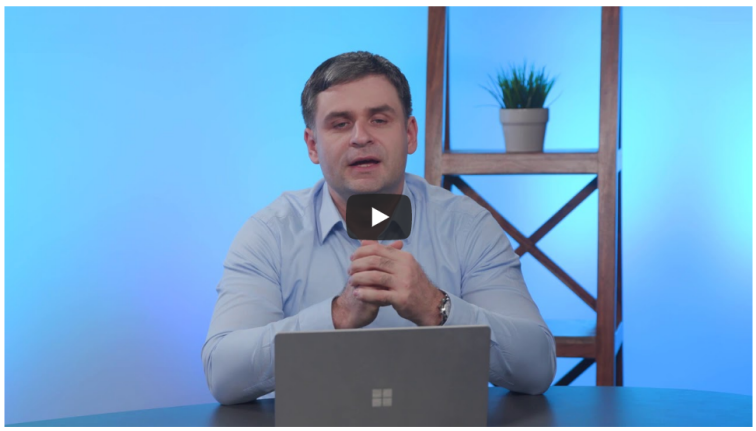
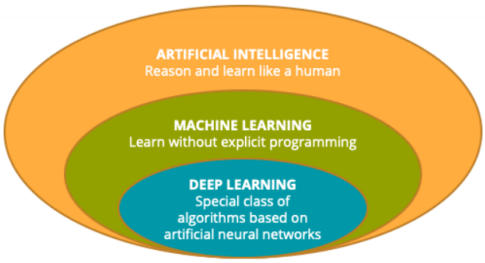
Classical Machine Learning vs. Deep Learning



As we just described, Artificial Intelligence (AI) *includes* Machine Learning (ML), which *includes* Deep Learning (DL). We can visualize the relationship like this:



As the diagram shows, all deep learning algorithms are particular cases of machine learning algorithms —but it's *not* true that all machine learning algorithms are deep learning algorithms.

A More Detailed Comparison

QUIZ QUESTION

Which of the following statements describes most accurately the relationship between classical Machine Learning and Deep Learning?

- Machine Learning algorithms are a special case of Deep Learning algorithms and have the capability of learning accurately complex, non-linear functions from data
- Deep Learning and Machine Learning algorithms are two completely different sets of algorithms
- ✓ Deep Learning algorithms are a special case of Machine Learning algorithms and have the capability of learning accurately complex, non-linear functions from data
- Machine Learning and Deep Learning algorithms are essentially equivalent, and can be easily translated into each other.

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